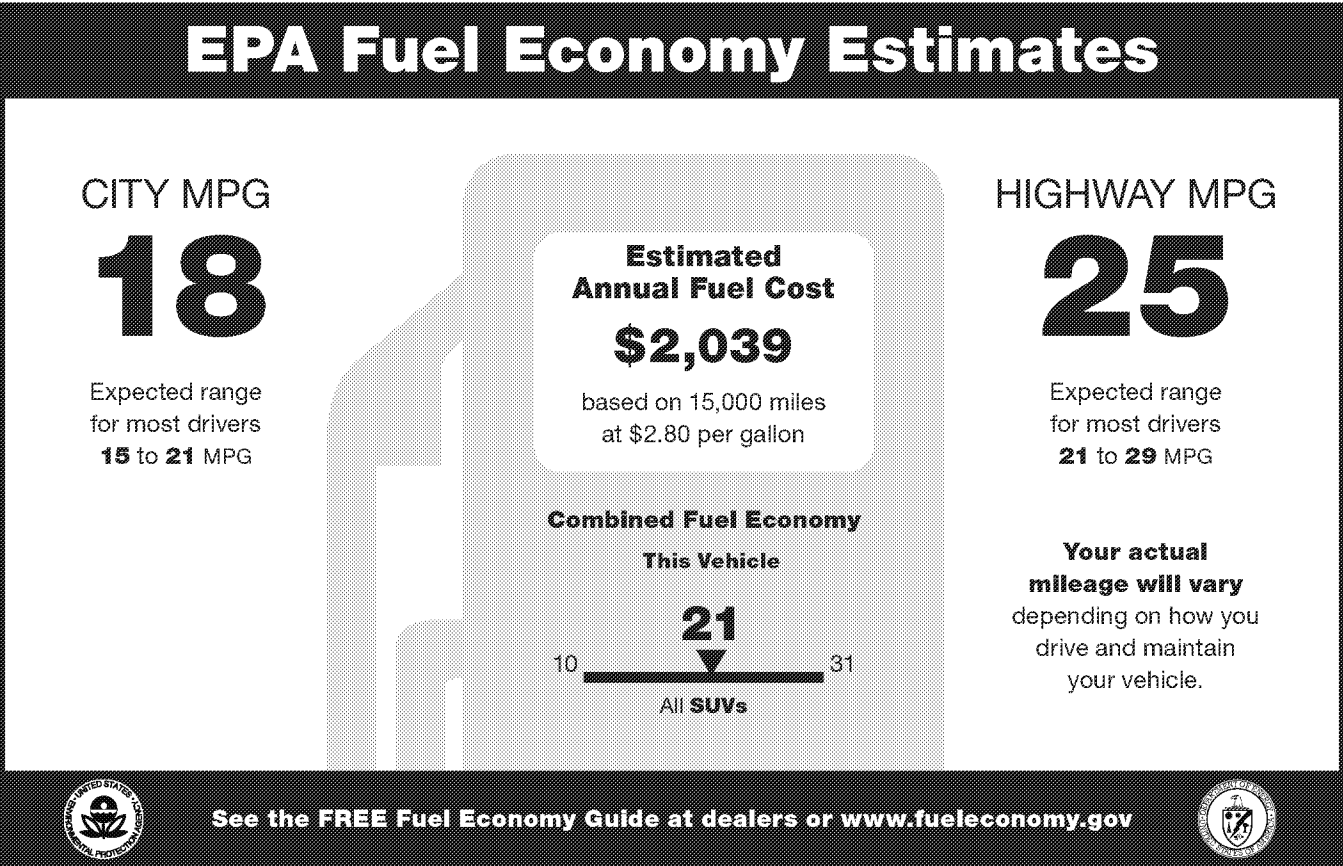
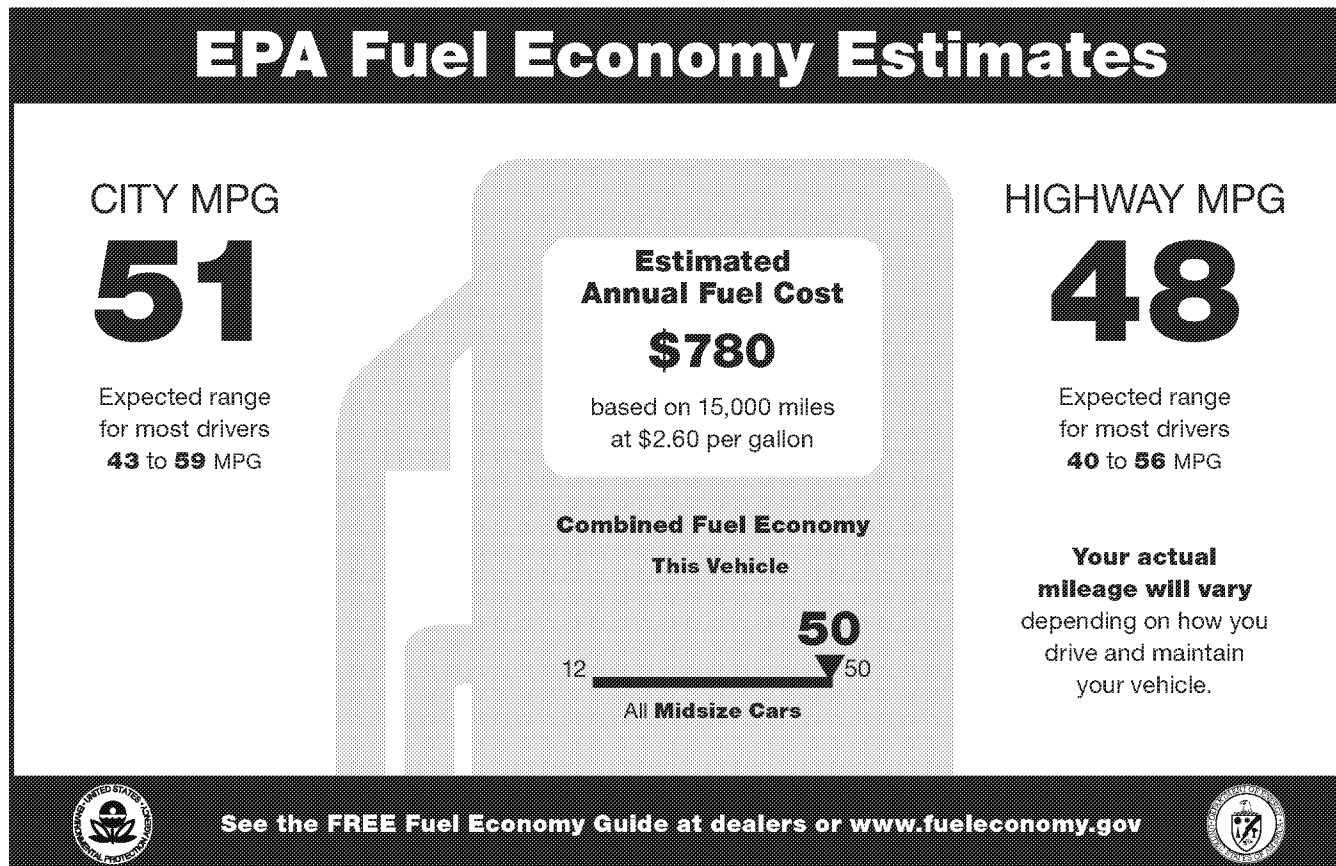


Current Label



Prius Label



Statement 1

Hybrid

A gasoline hybrid uses gasoline to propel the vehicle. It can recoup some energy through regenerative braking. Does not plug in to charge the battery.

Statement 2

EV (Electric Vehicle)


Electric Vehicles use electricity stored in batteries to propel the vehicle. The battery is charged by plugging it into an electrical outlet. This could be a standard electric outlet or a high voltage custom-installed charging station for more rapid charging. Like hybrid vehicles, some energy is recouped through regenerative braking. The vehicle travels until the charge is depleted or it is re-charged. There is no option to run it on gasoline.

1


EV Label Sketching Exercise

EPA Label Information

Fuel source: Electricity



See the **FREE Fuel Economy Guide** at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.




Houston1

1


EV Label Sketching Exercise

EPA Label Information

Fuel source: Electricity



See the **FREE Fuel Economy Guide** at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.




1

EV Label Sketching Exercise

EPA Label Information

Fuel source: Electricity



See the **FREE Fuel Economy Guide** at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.




Charlotte1

1


EV Label Sketching Exercise

EPA Label Information

Fuel source: Electricity



See the **FREE Fuel Economy Guide** at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.



Charlotte2

1a EV Label: Categories & Metrics

Charging Time

Battery charge time
12 hours (Using 220v outlet)

Range

On a full charge, vehicle can travel approximately:

City	Highway	Combined
110 Miles	88 Miles	100 Miles

Fuel Consumption

City	Highway	Combined
33 kW-hrs per 100 miles	36 kW-hrs per 100 miles	34 kW-hrs per 100 miles
.33 kW-hrs per mile	.36 kW-hrs per mile	.34 kW-hrs per mile
3.0 miles per kW-hr	2.8 miles per kW-hr	2.9 miles per kW-hr
City 102 MPGe	Highway 94 MPGe	Combined 98 MPGe
City 4950 kW-hrs per year	Highway 5400 kW-hrs per year	Combined 5153 kW-hrs per year

Fuel Cost

City	Highway	Combined
\$594 Annual	\$648 Annual	\$618 Annual
\$0.04 per Mile	\$0.04 per Mile	\$0.04 per Mile
City \$50 per Month	Highway \$54 per Month	Combined \$52 per Month

Estimated fuel cost based on 15,000 miles per year at 12 cents per kW-hour.

1b

EV Label: Environment Metrics

Environment

CO₂

0 (zero) Grams per mile



Rating



5 out of 5 (5 is best)
Includes greenhouse gases and other air pollutants.

Rating






5 out of 5 (5 is best)
Includes greenhouse gases and other air pollutants.

CO₂ and other air pollutants


Best



0

Worst

888




All figures are grams per mile.

Rating


Worst

1



10

Best



Includes greenhouse gases and other air pollutants.

CO₂

0 (zero) Grams per mile



Rating

10 out of 10 [10 is best]

Includes greenhouse gases and other air pollutants

Rating

10 out of 10 [10 is best]



Includes greenhouse gases and other air pollutants

Statement 3

EREV (Extended Range Electric Vehicle)

An EREV has two modes of operation and can be plugged in to charge the battery.

1. It uses wall electricity to propel the vehicle (like an EV) until the wall electricity is used up.
2. Once the stored wall electricity is used up, it runs like a gasoline hybrid, using gasoline to propel the vehicle with some regenerative braking.


Important: daily driving distance can **GREATLY** affect the amount of gasoline used. Can go all the way from zero gasoline (if shorter commutes and plenty of recharging) to entirely gasoline (if longer drives and no recharging).

2


EREV Label:

EPA Label Information

Fuel source: Electricity + Gasoline (EREV)



See the **FREE Fuel Economy Guide** at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.




Houston1

2


EREV Label:

EPA Label Information

Fuel source: Electricity + Gasoline (EREV)



See the **FREE Fuel Economy Guide** at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.




2


EREV Label:

EPA Label Information

Fuel source: Electricity + Gasoline (EREV)



See the **FREE Fuel Economy Guide** at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.




Charlotte1

2


EREV Label:

EPA Label Information

Fuel source: Electricity + Gasoline (EREV)



See the **FREE Fuel Economy Guide** at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.



Charlotte2

2a EREV Label: Electric Categories & Metrics

Charging Time

Battery charge time
4 hours (Using 220v outlet)

Fuel Consumption Electricity:

City	Highway	Combined
33 kW-hrs per 100 miles	36 kW-hrs per 100 miles	34 kW-hrs per 100 miles
.33 kW-hrs per mile	.36 kW-hrs per mile	.34 kW-hrs per mile
3.0 miles per kW-hr	2.8 miles per kW-hr	2.9 miles per kW-hr
City	Highway	Combined
102 MPGe	94 MPGe	98 MPGe
City	Highway	Combined
4950 kW-hrs per year	5400 kW-hrs per year	5153 kW-hrs per year

Range

On a full charge, until battery is exhausted, vehicle can travel:

City	Highway	Combined
32 Miles	27 Miles	30 Miles

From a full charge, until all fuel is exhausted, vehicle can travel:

City	Highway	Combined
432 Miles	480 Miles	452 Miles

Without a charge, until all fuel is exhausted, vehicle can travel:

City	Highway	Combined
400 Miles	453 Miles	422 Miles

Fuel Cost Electricity:

City	Highway	Combined
\$594 Annual	\$648 Annual	\$618 Annual
City	Highway	Combined
\$.04 per Mile	\$.04 per Mile	\$.04 per Mile
City	Highway	Combined
\$50 per Month	\$54 per Month	\$52 per Month

2b

EREV Label: Gasoline Categories & Metrics

Fuel Consumption Empty battery, gas only:			Fuel Cost Empty battery, gas only:		
City	Highway	Combined	City	Highway	Combined
36 MPG	40 MPG	38 MPG	\$1,250 Annual	\$1,125 Annual	\$1,194 Annual
City	Highway	Combined	City	Highway	Combined
2.8 gallons per 100 miles	2.5 gallons per 100 miles	2.7 gallons per 100 miles	\$.08 per Mile	\$.08 per Mile	\$.08 per Mile
City	Highway	Combined	City	Highway	Combined
.028 gallons per mile	.025 gallons per mile	.027 gallons per mile	\$104 per Month	\$94 per Month	\$99 per Month
City	Highway	Combined	Estimated fuel cost based on 15,000 miles per year at 12 cents per kW-hour and \$3.00 per gallon.		
417 gallons per year	375 gallons per year	398 gallons per year			

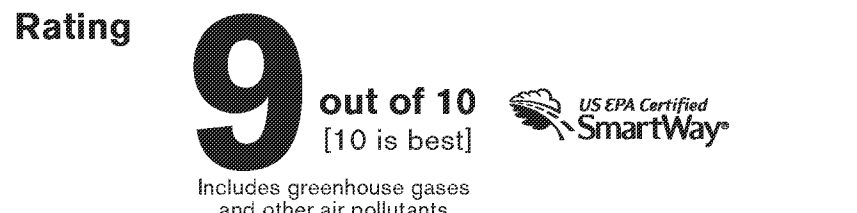
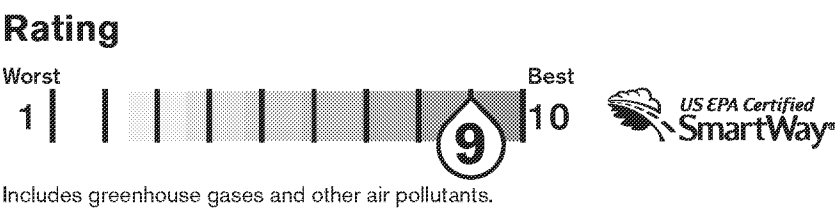
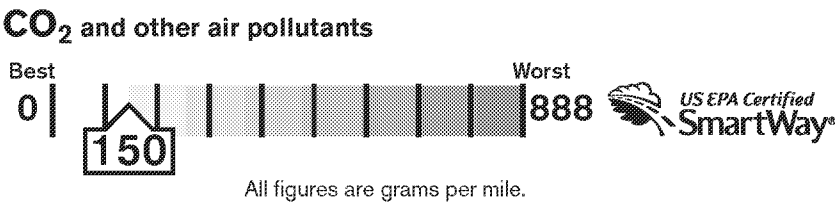
EREV Label Building Exercise: Merged Gasoline + Electric Metrics

Fuel Consumption Electric + Gasoline:		Fuel Cost Electric + Gasoline:	
Combined	Combined	Combined	
18 kW-hrs per 100 miles + 1.2 gallons per 100 miles		\$889 Annual gas + electric	
Combined	Combined		
54 MPGe + 80 MPG	56 MPGe of gas + electric		

2c

EREV Label: Environment Metrics

Environment



Statement 4

PHEV (Plug-in Hybrid Electric Vehicle)

A PHEV has two modes of operation and can be plugged in to charge the battery.

1. It uses wall electricity intermingled with some gasoline to propel the vehicle until the wall electricity is used up.
2. Once the stored wall electricity is used up, it runs like a gasoline hybrid, using gasoline to propel the vehicle with some regenerative braking.


Important: daily driving distance can GREATLY affect the amount of gasoline used.

3


PHEV Label Sketching Exercise

EPA Label Information

Fuel source: Electricity + Gasoline (PHEV)



See the **FREE Fuel Economy Guide** at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.





Houston1

3

PHEV Label Sketching Exercise

EPA Label Information

Fuel source: Electricity + Gasoline (PHEV)





See the FREE Fuel Economy Guide at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.

3

PHEV Label Sketching Exercise

EPA Label Information

Fuel source: Electricity + Gasoline (PHEV)



See the FREE Fuel Economy Guide at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.



Charlotte1

3

PHEV Label Sketching Exercise

EPA Label Information

Fuel source: Electricity + Gasoline (PHEV)



See the FREE Fuel Economy Guide at dealers or www.fueleconomy.gov
Your results will vary depending on how you drive and maintain your vehicle.

Charlotte2

3a

PHEV Label Building Exercise: Charged Battery Fuel Consumption & Charging Time

Fuel Consumption Electricity:		
City	Highway	Combined
24 <small>kW-hrs per 100 miles</small>	27 <small>kW-hrs per 100 miles</small>	25 <small>kW-hrs per 100 miles</small>
.24 <small>kW-hrs per mile</small>	.27 <small>kW-hrs per mile</small>	.25 <small>kW-hrs per mile</small>
4.2 <small>miles per kW-hr</small>	3.7 <small>miles per kW-hr</small>	3.9 <small>miles per kW-hr</small>
140 <small>MPGe</small>	125 <small>MPGe</small>	133 <small>MPGe</small>
3600 <small>kW-hrs per year</small>	4050 <small>kW-hrs per year</small>	3803 <small>kW-hrs per year</small>

Charging Time
Battery charge time
4 hours (Using 220v outlet)

Fuel Consumption Gasoline:		
City	Highway	Combined
97 <small>MPG</small>	101 <small>MPG</small>	99 <small>MPG</small>
1.0 <small>gallons per 100 miles</small>	1.0 <small>gallons per 100 miles</small>	1.0 <small>gallons per 100 miles</small>
.010 <small>gallons per mile</small>	.010 <small>gallons per mile</small>	.010 <small>gallons per mile</small>
155 <small>gallons per year</small>	149 <small>gallons per year</small>	152 <small>gallons per year</small>

Fuel Consumption Electric + Gasoline:		
City	Highway	Combined
57 <small>MPGe of gas + electric</small>	56 <small>MPGe of gas + electric</small>	57 <small>MPGe of gas + electric</small>

3b

PHEV Label Building Exercise: Charged Battery Fuel Cost & Range Metric

Fuel Cost

Electricity:

City	Highway	Combined
\$432 Annual	\$486 Annual	\$456 Annual

City	Highway	Combined
\$.029 per Mile	\$.032 per Mile	\$.030 per Mile

City	Highway	Combined
\$36 per Month	\$41 per Month	\$38 per Month

Estimated fuel cost based on 15,000 miles per year at 12 cents per kW-hour and \$3.00 per gallon.

Fuel Cost

Gasoline:

City	Highway	Combined
\$439 Annual	\$446 Annual	\$456 Annual

City	Highway	Combined
\$.031 per Mile	\$.030 per Mile	\$.030 per Mile

City	Highway	Combined
\$39 per Month	\$37 per Month	\$38 per Month

Fuel Cost

Electric + Gasoline:

City	Highway	Combined
\$896 Annual	\$932 Annual	\$912 Annual

City	Highway	Combined
\$.06 per Mile	\$.06 per Mile	\$.06 per Mile

City	Highway	Combined
\$75 per Month	\$78 per Month	\$76 per Month

Range

On a full charge, until battery is exhausted, vehicle can travel:

City	Highway	Combined
52 Miles	47 Miles	50 Miles

From a full charge, until all fuel is exhausted, vehicle can travel:

City	Highway	Combined
432 Miles	480 Miles	452 Miles

Without a charge, until all fuel is exhausted, vehicle can travel:

City	Highway	Combined
380 Miles	433 Miles	402 Miles

3c

PHEV Label Building Exercise: Depleted Battery Gasoline Categories

Fuel Consumption

Empty battery,
gas only:

City	Highway	Combined
36 MPG	40 MPG	38 MPG
City	Highway	Combined
2.8 gallons per 100 miles	2.5 gallons per 100 miles	2.7 gallons per 100 miles
City	Highway	Combined
.028 gallons per mile	.025 gallons per mile	.027 gallons per mile
City	Highway	Combined
417 gallons per year	375 gallons per year	398 gallons per year

Fuel Cost

Empty battery,
gas only:

City	Highway	Combined
\$1,250 Annual	\$1,125 Annual	\$1,194 Annual
City	Highway	Combined
\$.08 per Mile	\$.08 per Mile	\$.08 per Mile
City	Highway	Combined
\$104 per Month	\$94 per Month	\$99 per Month

3d

PHEV Label: Environment Metrics

Environment

CO₂
150 Grams
per mile

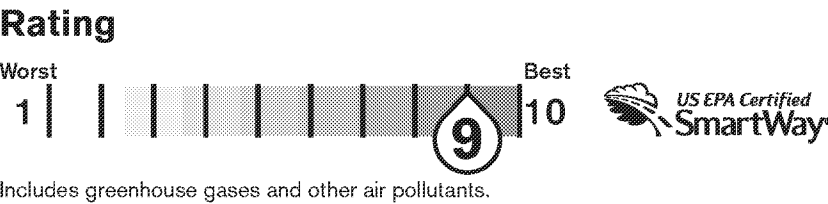
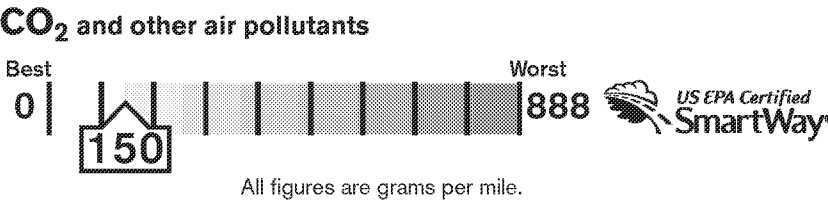


Rating

4.5 out of 5 (5 is best)
Includes greenhouse gases and other air pollutants.

Rating

4.5 out of 5 (5 is best)
Includes greenhouse gases and other air pollutants.



CO₂
150 Grams
per mile



Rating
9 out of 10
[10 is best]
Includes greenhouse gases
and other air pollutants

Rating
9 out of 10
[10 is best]
Includes greenhouse gases
and other air pollutants